- *Tagout:* placement of a tagout device on an energy-isolating device to inform that the equipment may not be operated.
- *Tagout device:* prominent warning device, such as a tag and a means of attachment.

29 CFR 1910.147(c)—*General*

(1) *Energy control program*. A program including an energy control procedure and employee training is required.

(2) *Lockout/tagout*

(i) A tagout system shall only be used if the isolating device *cannot* be locked out.

(ii) If the isolating device can be locked out, a lockout shall be used, unless the employer can demonstrate that a tagout system provides full employee protection.

(iii) When machinery is replaced or undergoes major repair or renovation, equipment-isolating devices shall be designed to accept a lockout device.

(3) *Full employee protection*

(i) When a tagout device is used on an isolating device capable of being locked out, the tagout device shall be placed at the same location where the lockout device would have been placed and the employer must demonstrate that the tagout system provides safety equivalent to the lockout program.

(ii) In demonstrating that tagout provides safety equivalent to lockout, the employer shall show full compliance with all tagout-related provisions and such additional elements as are necessary to provide equivalent safety, such as the removal of an isolating circuit element, blocking of a controlling switch, opening of an extra disconnecting device or removal of a valve handle.

(4) *Energy control procedure*

(i) Procedures shall be developed, documented and utilized. *Exception:* The employer need not document if *all* of the following exist:

(1) the machine has no potential to release or store energy

(2) the machine has a single energy source, readily identified and isolated

(3) isolation and lockout completely de-energize and deactivate the machine

(4) the machine is isolated from that energy source and locked out during servicing or maintenance

(5) a single lockout device will achieve lockout

(6) the lockout device is under control of the authorized employee servicing or maintaining the machine

(7) the servicing or maintenance does not create hazards for others

(8) the employer has had no accidents from the release of energy while servicing or maintaining equipment.

(ii) The procedures shall specify the scope, purpose, authorization, rules and techniques for controlling hazardous energy, and the means of enforcing compliance, including but not limited to:

(A) intended use of the procedure

(B) steps for shutting down, isolating, blocking and securing equipment to control its energy

(C) steps for placement, removal and transfer of lockout/tagout devices and the responsibility for them

(D) requirements for testing to determine and verify effectiveness of lockout/tagout devices and other measures.

(5) *Protective materials and hardware*

(i) Locks, tags, chains, wedges, key blocks, adaptor pins, self-locking fasteners or other hardware shall be provided by the employer.

(ii) Lockout/tagout devices shall be singularly identified, be the only devices used for controlling energy, not be used for other purposes, and shall be:

(A) Durable: (1) able to withstand the environment to which they are exposed for as long as they are exposed; (2) tagout devices shall be constructed and printed so that exposure will not cause the message to become illegible from
deterioration; (3) tags shall not deteriorate when used in a corrosive environment.

(B) The color, shape or size of lockout/tagout devices and the print and format of tagout devices shall be standardized.